

Abstract of the Disclosure

A vehicle frame and unibody straightening jig has eight joints, each including a socket for connecting a pulling tower assembly. A spider joint at one end of the jig includes five spaced sockets radiating within a 180° arc. Multiple pulling towers can be installed side-by-side on the same side of a vehicle. The jig also includes lateral support legs or outriggers pivotable about a 90° arc and foldable against the spine to reduce the width of the jig for storage. Clamps are mounted on the outriggers for connecting the jig to a vehicle frame or unibody, The clamps are adjustable along the length of the legs to permit connection of the jig with a wide variety of vehicle frames and unibody structures. The jig also includes a carriage assembly with wheels for easy positioning beneath a vehicle.